

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 10, 2003, 15:59:18 ; Search time 6118 Seconds
(without alignments)
10912.800 Million cell updates/sec

Title: US-10-006-911-3_COPY_1345_2976
Perfect score: 1632
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 1316618

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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- 1: gb.ba.*
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- 4: gb.om.*
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- 41: em.htgo.other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30.6	1.9	31	6	AX248013 Sequence
2	30.6	1.9	31	6	AX248014 Sequence
3	22	1.3	22	6	AX418163 Sequence
4	22	1.3	45	9	AY078814 Hylobates
5	22	1.3	46	9	AY078815 Hylobates
6	22	1.3	46	9	AY078816 Hylobates
7	22	1.3	46	9	AY078817 Hylobates
8	22	1.3	46	9	AY078818 Hylobates
9	22	1.3	46	9	AY078819 Hylobates
10	22	1.3	46	9	AY078820 Hylobates
11	21.8	1.3	47	6	AX114333 Sequence
12	21	1.3	21	6	AX418162 Sequence
13	21	1.3	45	6	I60571 Sequence 25
14	21	1.3	46	9	AY078828 Pongo pyg
15	21	1.3	46	9	AY078835 Pongo pyg
16	21	1.3	46	9	AY078842 Pongo pyg
17	20.6	1.3	21	6	AX094952 Sequence
18	20.6	1.3	21	6	AX094953 Sequence
19	20.6	1.3	21	6	AX094954 Sequence
20	20.6	1.3	41	6	AR006790 Sequence
21	20.6	1.3	41	6	AR135398 Sequence
22	20.6	1.3	41	6	I71302 Sequence 40
23	20.6	1.3	47	6	AR289315 Sequence
24	20.6	1.3	50	6	AX685332 Sequence
25	20.4	1.2	31	6	A76877 Sequence 9
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28	20.4	1.2	46	9	AY078821 Hylobates
29	20.4	1.2	46	9	AY078822 Hylobates
30	20.4	1.2	46	9	AY078849 Gorilla g
31	20.4	1.2	46	9	AY078871 Hylobates
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33	20.2	1.2	46	9	AY078885 Hylobates
34	20	1.2	50	6	AX685333 Sequence
35	20	1.2	41	6	AX517118 Sequence
36	19.8	1.2	41	6	AX519647 Sequence
37	19.8	1.2	33	6	AR145735 Sequence
38	19.8	1.2	41	6	AR006789 Sequence
39	19.8	1.2	41	6	AR135397 Sequence
40	19.8	1.2	41	6	I71301 Sequence 39
41	19.8	1.2	47	6	AR290337 Sequence
42	19.8	1.2	47	6	AX697662 Sequence
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44	19.8	1.2	47	6	BD172436 Secreted
45	19.8	1.2	47	6	BD172755 Secreted
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ALIGNMENTS

RESULT 1	AX248013	Sequence 92 from Patent WO0166800.	31 bp	DNA	linear	PAT 28-SEP-2001
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DEFINITION	AX248013	Sequence 92 from Patent WO0166800.	31 bp	DNA	linear	PAT 28-SEP-2001
ACCESSION	AX248013	Sequence 92 from Patent WO0166800.	31 bp	DNA	linear	PAT 28-SEP-2001
VERSION	AX248013.1	GI:15862636				
KEYWORDS						
SOURCE						
ORGANISM						
REFERENCE						
AUTHORS						
TITLE						
JOURNAL						


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REFERENCE
AUTHORS
1 (bases 1 to 46)
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
TITLE
JOURNAL
PUBMED
12477827
REFERENCE
AUTHORS
2 (bases 1 to 46)
Bashirova,A.A. and Carrington,M.
TITLE
Direct Submission
JOURNAL
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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Matches
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DB
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RESULT 6
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Papio hamadryas isolate B854 putative CD209 protein (CD209) gene,
exon 1.
ACCESSION
AY078864
VERSION
AY078864.1 GI:27356858
KEYWORDS
Papio hamadryas (hamadryas baboon)
SOURCE
Papio hamadryas
ORGANISM
Papio hamadryas
REFERENCE
AUTHORS
1 (bases 1 to 46)
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P., and
Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
TITLE
JOURNAL
PUBMED
12477827
REFERENCE
AUTHORS
2 (bases 1 to 46)
Bashirova,A.A.
TITLE
Direct Submission
JOURNAL
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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Best Local Similarity
73.7%; Pred. No. 5.1e+06;
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AY078892S1
LOCUS
Pongo pygmaeus isolate Ppy21 putative CD209 protein (CD209) gene,
exon 1.
ACCESSION
AY078892
VERSION
AY078892.1 GI:27356894
KEYWORDS
Pongo pygmaeus
SEGMENT
1 of 7
SOURCE
Pongo pygmaeus (orangutan)
ORGANISM
Pongo pygmaeus
REFERENCE
AUTHORS
1 (bases 1 to 46)
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
TITLE
JOURNAL
PUBMED
12477827
REFERENCE
AUTHORS
2 (bases 1 to 46)
Bashirova,A.A.
TITLE
Direct Submission
JOURNAL
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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/mol_type="genomic DNA"
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exon 1.
ACCESSION
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VERSION
AY078899.1 GI:27356903
KEYWORDS
Pongo pygmaeus
SEGMENT
1 of 7
SOURCE
Pongo pygmaeus (orangutan)
ORGANISM
Pongo pygmaeus
REFERENCE
AUTHORS
1 (bases 1 to 46)
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,

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Query Match
1.3%; Score 22; DB 9; Length 46;
Best Local Similarity
73.7%; Pred. No. 5.1e+06;
Matches
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0; Mismatches
10; Indels
0; Gaps
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QY
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|||||
DB
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RESULT 7
AY078892S1
LOCUS
Pongo pygmaeus isolate Ppy21 putative CD209 protein (CD209) gene,
exon 1.
ACCESSION
AY078892
VERSION
AY078892.1 GI:27356894
KEYWORDS
Pongo pygmaeus
SEGMENT
1 of 7
SOURCE
Pongo pygmaeus (orangutan)
ORGANISM
Pongo pygmaeus
REFERENCE
AUTHORS
1 (bases 1 to 46)
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
TITLE
JOURNAL
PUBMED
12477827
REFERENCE
AUTHORS
2 (bases 1 to 46)
Bashirova,A.A.
TITLE
Direct Submission
JOURNAL
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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RESULT 8
AY078899S1
LOCUS
Pongo pygmaeus isolate Ppy91 putative CD209 protein (CD209) gene,
exon 1.
ACCESSION
AY078899
VERSION
AY078899.1 GI:27356903
KEYWORDS
Pongo pygmaeus
SEGMENT
1 of 7
SOURCE
Pongo pygmaeus (orangutan)
ORGANISM
Pongo pygmaeus
REFERENCE
AUTHORS
1 (bases 1 to 46)
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,

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Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
J. Virol. 77 (1), 217-227 (2003)
12477827
REFERENCE
2 (bases 1 to 46)
Bashirova,A.A.
Direct Submission
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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source
exon
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Best Local Similarity 73.7%; Pred. No. 5.1e+06;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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RESULT 5
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LOCUS
Gorilla gorilla isolate Ggo3 putative CD209 protein (CD209) gene,
exon 1.
ACCESSION
AY078906
VERSION
AY078906.1 GI:27356912
SEGMENT
1 of 7
ORGANISM
Gorilla gorilla (gorilla)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Gorilla.
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
J. Virol. 77 (1), 217-227 (2003)
12477827
REFERENCE
2 (bases 1 to 46)
Bashirova,A.A.
Direct Submission
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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Best Local Similarity 73.7%; Pred. No. 5.1e+06;
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exon 1.
ACCESSION
AY078914
VERSION
AY078914.1 GI:27356921
KEYWORDS
1 of 7
SEGMENT
Pan troglodytes (chimpanzee)
ORGANISM
Pan troglodytes
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
Bashirova,A.A., Wu,L., Cheng,J., Martin,T.D., Martin,M.P.,
Benveniste,R.E., Lifson,J.D., KewalRamani,V.N., Hughes,A. and
Carrington,M.
Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
J. Virol. 77 (1), 217-227 (2003)
12477827
REFERENCE
2 (bases 1 to 46)
Bashirova,A.A.
Direct Submission
Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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/evidence=not experimental
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exon
Query Match 1.3%; Score 22; DB 9; Length 46;
Best Local Similarity 73.7%; Pred. No. 5.1e+06;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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Db 1 ATGAGTGACTCCAAAGGACCAAGACTGCAGCAGCTGGG 38
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RESULT 11
AX114333 47 bp DNA linear PAT 11-MAY-2001
LOCUS
Sequence 2 from Patent WO0129257.
ACCESSION
AX114333
VERSION
AX114333.1 GI:14031297
KEYWORDS
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Schork,N. and Skierczynski,B.
Methods of genetic cluster analysis and use thereof
Patent: WO 0129257-A 2 26-APR-2001;
GENSET (FR)
FEATURES
Location/Qualifiers

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Matches 29; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

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RESULT 12
LOCUS AX418162 21 bp DNA linear PAT 18-JUN-2002
DEFINITION Sequence 15 from Patent WO0202620.
ACCESSION AX418162
VERSION AX418162.1 GI:21523172
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Lennon, V.A., Yu, Z., Kryzer, T.J. and Griesmann, G.E.
TITLE Crmp-5 (collapsin response-mediator protein) encoding nucleic acid,
JOURNAL polypeptide and uses thereof
PATENT: WO 0202620-A 15 10-JAN-2002;
MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (US)
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DEFINITION Sequence 25 from patent US 5656725.
ACCESSION I60571
VERSION I60571.1 GI:2479016
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 45)
AUTHORS Chittenden, T.D. and Lutz, R.J.
TITLE Peptides and compositions which modulate apoptosis
JOURNAL Patent: US 5656725-A 25 12-AUG-1997;
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DEFINITION Pongo pygmaeus isolate Ppy21 putative CD209L1 protein (CD209L1)
gene, exon 1.
ACCESSION AY078828
VERSION AY078828.1 GI:27356811
KEYWORDS
SEGMENT 1 of 7
SOURCE Pongo pygmaeus (orangutan)
ORGANISM Pongo pygmaeus
REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
1 (bases 1 to 46)
Bashirova, A.A., Wu, L., Cheng, J., Martin, T.D., Martin, M.P., and
Benveniste, R.E., Lifson, J.D., KewalRamani, V.N., Hughes, A., and
Carrington, M.
TITLE Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
JOURNAL J. Virol. 77 (1), 217-227 (2003)
PUBMED 12477827
REFERENCE 2 (bases 1 to 46)
AUTHORS Bashirova, A.A. and Carrington, M.
TITLE Direct Submission
JOURNAL Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
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/organism="Pongo pygmaeus"
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Query Match      1.3%; Score 21; DB 9; Length 46;
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DEFINITION Pongo pygmaeus isolate Ppy36 putative CD209L1 protein (CD209L1)
gene, exon 1.
ACCESSION AY078835
VERSION AY078835.1 GI:27356820
KEYWORDS
SEGMENT 1 of 7
SOURCE Pongo pygmaeus (orangutan)
ORGANISM Pongo pygmaeus
REFERENCE 1
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo.
1 (bases 1 to 46)
Bashirova, A.A., Wu, L., Cheng, J., Martin, T.D., Martin, M.P., and
Benveniste, R.E., Lifson, J.D., KewalRamani, V.N., Hughes, A., and
Carrington, M.

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TITLE Novel Member of the CD209 (DC-SIGN) Gene Family in Primates
JOURNAL J. Virol. 77 (1), 217-227 (2003)
PUBMED 12477827
REFERENCE 2 (bases 1 to 46)
AUTHORS Bashitova, A.A. and Carrington, M.
TITLE Direct Submission
JOURNAL Submitted (11-FEB-2002) Laboratory of Genomic Diversity, NCI,
NCI-Frederick, Frederick, MD 21702, USA
FEATURES
source
1..46
/organism="Pongo pygmaeus"
/mol_type="genomic DNA"
/isolate="Fpy28"
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<1..46
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/note="similar to Homo sapiens CD209L1 gene"
/number=1
/evidence=not_experimental
exon
13 a 12 c 14 g 7 t
BASE COUNT 13 a 12 c 14 g 7 t
ORIGIN
Query Match 1.3%; Score 21; DB 9; Length 46;
Best Local Similarity 73.0%; Pred. No. 8.3e+06;
Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
Qy 252 ATGATTTCCTCCAAAGAACCAAGCGGCCCTGGCTGG 288
|||||
Db 1 ATGAGTGACTCCAAGGAACCAAGGTCGACGAGCTGG 37
|||||

Search completed: December 10, 2003, 21:37:37
Job time : 6122 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model
Run on: December 10, 2003, 18:45:12 ; Search time 3660 Seconds
(without alignments)
10837.406 Million cell updates/sec

Title: US-10-006-911-3_COPY_1345_2976
Perfect score: 1632
Sequence: 1 tcaggagagaaaatttc.....ttgtctggtcgcagattga 1632

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues
Total number of hits satisfying chosen parameters: 124404

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST.*
1: em_estba.*
2: em_esthum.*
3: em_estin.*
4: em_estmu.*
5: em_estov.*
6: em_estpl.*
7: em_estro.*
8: em_hcc.*
9: gb_estl.*
10: gb_est2.*
11: gb_hcc.*
12: gb_est3.*
13: gb_est4.*
14: gb_est5.*
15: em_estfun.*
16: em_eston.*
17: em_gss_hum.*
18: em_gss_inv.*
19: em_gss_pln.*
20: em_gss_vrt.*
21: em_gss_fun.*
22: em_gss_mam.*
23: em_gss_mus.*
24: em_gss_pro.*
25: em_gss_rod.*
26: em_gss_phg.*
27: em_gss_vri.*
28: gb_gsal.*
29: gb_gsal2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	26.6	1.6	43	9 AA975126	AA975126 on06e08.s
C 2	22.4	1.4	50	9 AU106847	AU106847 AU106847
C 3	20.6	1.3	50	9 AU106844	AU106844 AU106844
C 4	20.6	1.3	50	9 AU106846	AU106846 AU106846

C	5	20.6	1.3	50	9 AU106848	AU106848 AU106848
C	6	20.4	1.2	41	28 AZ647118	AZ647118 1M0513023
C	7	20.4	1.2	44	28 AZ983982	AZ983982 2M0265013
C	8	20.2	1.2	44	28 AZ413456	AZ413456 1M0197E14
C	9	20.2	1.2	45	14 H67715	H67715 Yr72c07.s1
C	10	19.8	1.2	50	9 AU103525	AU103525 AU103525
C	11	19.6	1.2	42	28 AZ633442	AZ633442 1M0489N08
C	12	19.6	1.2	43	28 BH234824	BH234824 MEAA.E02.
C	13	19.6	1.2	49	28 AZ964788	AZ964788 2M0234C11
C	14	19.6	1.2	50	9 AU106256	AU106256 AU106256
C	15	19.4	1.2	40	14 H25033	H25033 Y139F09.r1
C	16	19.4	1.2	42	9 AU102320	AU102320 AU102320
C	17	19.4	1.2	50	9 AU103362	AU103362 Danio rer
C	18	19.2	1.2	49	29 BX133642	BX133642 Danio rer
C	19	19.2	1.2	50	9 AU103396	AU103396 AU103396
C	20	19.2	1.2	50	9 AU105960	AU105960 AU105960
C	21	19.2	1.2	50	9 AU107563	AU107563 AU107563
C	22	19	1.2	47	28 BH640414	BH640414 1008035F1
C	23	19	1.2	48	28 BH910594	BH910594 SALK_0605
C	24	19	1.2	50	9 AU107084	AU107084 AU107084
C	25	18.8	1.2	45	29 AL940299	AL940299 Arabidops
C	26	18.8	1.2	48	12 BI753336	BI753336 603026191
C	27	18.8	1.2	49	9 AA151661	AA151661 z039a02.s
C	28	18.8	1.2	49	14 H22280	H22280 Y136b03.r1
C	29	18.8	1.2	50	9 AU103300	AU103300 AU103300
C	30	18.8	1.2	50	9 AU107374	AU107374 AU107374
C	31	18.8	1.2	50	9 AU107543	AU107543 AU107543
C	32	18.8	1.2	50	28 AZ920484	AZ920484 1006020A0
C	33	18.6	1.1	37	9 AI721602	AI721602 fc29h09.x
C	34	18.6	1.1	43	9 AA676294	AA676294 ad37d06.s
C	35	18.6	1.1	49	9 AU1776769	AU1776769 AU1776769
C	36	18.4	1.1	50	9 AU106434	AU106434 AU106434
C	37	18.4	1.1	50	9 AU106786	AU106786 AU106786
C	38	18.4	1.1	50	9 AU106790	AU106790 AU106790
C	39	18.4	1.1	50	9 AU106794	AU106794 AU106794
C	40	18.4	1.1	50	9 AU106795	AU106795 AU106795
C	41	18.4	1.1	50	9 AU107060	AU107060 AU107060
C	42	18.2	1.1	34	28 AZ663610	AZ663610 1M0543016
C	43	18.2	1.1	43	9 AV833356	AV833356 AV833356
C	44	18.2	1.1	46	28 BH865380	BH865380 SALK_0983
C	45	18.2	1.1	47	10 BF969163	BF969163 602269853

ALIGNMENTS

AA975126 43 bp mRNA linear EST 23-OCT-1998
on06e08.s1 NCI CGAP Lei2 Homo sapiens CDNA clone IMAGE:1555910.3,
similar to TR:Q13024 Q13024 COLLAPSED RESPONSE MEDIATOR PROTEIN
CRMP-1. [1], mRNA sequence.
AA975126 GI:3150918
AA975126
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 43)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapsb-remail.nih.gov
unknown library type
Trace considered overall poor quality
Insert Length: 715 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 43

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/clone_lib="NCI_CGAP_Le12"
/note="Organ: soft tissue; Vector: pVT3D-Pac (Pharmacia)
with a modified polylinker; Site1: Not I; Site 2: Eco RI;
1st strand cDNA was primed with a Not I - oligo(dT) primer
[5'-AATCGGAAGATTCGCGCCCAATCGTTTTTTTTTTTTTTT-3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of the modified pVT3 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT      8 a 11 c 15 g 9 t
ORIGIN
Query Match      1.6%; Score 26.6; DB 9; Length 43;
Best Local Similarity 87.9%; Pred. No. 1.3e+04;
Matches 29; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1278 TCGAGTACAACTCTTTGAAGGATGGAGTGCC 1310
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Db 3 TCGAGTACAACTCTTCGAGGATGGAGTGCC 35

RESULT 2
AUI06847/c
LOCUS AUI06847 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HSI04566, mRNA sequence.
ACCESSION AUI06847
VERSION AUI06847.1 GI:13556368
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata
, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki
, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
PUBMED 11375929
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
, S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
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/mol_type="mRNA"
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/clone="HRC02437"
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Best Local Similarity 67.4%; Pred. No. 6.2e+05;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 816 ATGGCGATCACACACCACTCCCTTGGAAAGGCTCGCTCACATAATT 2
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Db 46 ATGGCGATCACACACCACTCCCTTGGAAAGGCTCGCTCACACA 4

RESULT 4
AUI06846/c
LOCUS AUI06846 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HSI00647, mRNA sequence.
ACCESSION AUI06846
VERSION AUI06846.1 GI:13556367
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata
, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki
, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
PUBMED 11375929
COMMENT Contact: Yutaka Suzuki

```


Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES

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/db_xref="taxon:9606"
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/clone_lib="Sugano Homo sapiens cDNA library"
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Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 816 ATGGCGAGCCCATCACTGCCAGCTTGGGAACGACGCTCCCA 858
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RESULT 5
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LOCUS
DEFINITION
AUI06848 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
HS10259, mRNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
AUI06848.1 GI:13556369
EST.
Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata
H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki
Y., Nakamura, Y., Suyama, A. and Sugano, S.

TITLE
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites

JOURNAL
MEDLINE
PUBMED
EMBO Rep. 2 (5), 388-393 (2001)
21270072
11375929

COMMENT

Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES

source
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Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

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|||||
Db 46 ATGGCGATCACACACCACTCCCTTGGAAAGGTTCGGCTCACA 4

RESULT 6

AZ647118/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

CONTACT: Robert B. Weiss

University of Utah

Genome Center

University of Utah

Genome Center

University of Utah

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AZ647118
41 bp DNA linear GSS 14-DEC-2000
IM0513023F Mouse 10kb plasmid UUC1M library Mus musculus genomic
clone UUC1M0513023 F, genomic survey sequence.

AZ647118

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

CONTACT: Robert B. Weiss

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AZ647118
41 bp DNA linear GSS 14-DEC-2000
IM0513023F Mouse 10kb plasmid UUC1M library Mus musculus genomic
clone UUC1M0513023 F, genomic survey sequence.

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AZ647118
41 bp DNA linear GSS 14-DEC-2000
IM0513023F Mouse 10kb plasmid UUC1M library Mus musculus genomic
clone UUC1M0513023 F, genomic survey sequence.

AZ647118

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

CONTACT: Robert B. Weiss

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RESULT 7
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LOCUS
DEFINITION
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ACCESSION
  AZ983982
VERSION
  AZ983982.1 GI:13855209
KEYWORDS
  GSS.
SOURCE
  Mus musculus (house mouse)
ORGANISM
  Mus musculus
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
  1 (bases 1 to 44)
REFERENCE
  Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
  Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
  M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
  and Wright,D., Weiss,R.
  Mouse whole genome scaffolding with paired end reads from 10kb
  plasmid inserts
  Unpublished
JOURNAL
  Contact: Robert B. Weiss
  University of Utah Genome Center
  University of Utah
  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
  84112, USA
  Tel: 801 585 5606
  Fax: 801 585 7177
  Email: ddunn@genetics.utah.edu
  Insert Length: 10000 Std Error: 0.00
  Plate: 0265 row: 0 column: 13
  Seq primer: CGTTGTAAACGACGCGCCAGT
  Class: plasmid ends
  High quality sequence stop: 44.
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    /clone_lib="Mouse 10kb plasmid UUGC2M library"
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    Laboratory Mouse DNA Resource
    (http://www.jax.org/resources/documents/dnares/). The DNA
    was hydrodynamically sheared by repeated passage through a
    0.005 inch orifice at constant velocity. The sheared DNA
    was blunt end-repaired with T4 DNA polymerase and T4
    polynucleotide kinase. Adaptor oligonucleotides were
    ligated to the blunt ends in high molar excess. The
    adaptor DNA was purified and size-selected for a 9.5 to
    10.5 kb range using preparative agarose gel
    electrophoresis. Vector DNA was prepared from a derivative
    of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
    inducible derivative of plasmid R1. The vector was ligated
    with adaptors complementary to the insert adaptors and
    purified. The sheared, adaptor mouse DNA was annealed to
    adaptor vector DNA, and transformed into
    chemically-competent E. coli XL10-Gold (Stratagene) cells
    and selected for ampicillin resistance."
  BASE COUNT
    17 a 2 c 21 g 4 t
  ORIGIN
    Query Match
    Best Local Similarity 1.2%; Score 20.4; DB 28; Length 44;
    Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
  QY 428 AAGCGATCCAGGAGGATGGAAGCGCTTGTGAAGGA 465
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Db
4 AAATGAATCGCGAGGGATCGAAGAGAGGCTAAAGGA 41
RESULT 8
AZ413456/c
LOCUS
DEFINITION
  44 bp DNA linear GSS 03-OCT-2000
  clone UUGC1M0197E14 R, genomic survey sequence.
ACCESSION
  AZ413456
VERSION
  AZ413456.1 GI:10537469
KEYWORDS
  GSS.
SOURCE
  Mus musculus (house mouse)
ORGANISM
  Mus musculus
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
  1 (bases 1 to 44)
REFERENCE
  Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
  Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
  M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
  and Wright,D., Weiss,R.
  Mouse whole genome scaffolding with paired end reads from 10kb
  plasmid inserts
  Unpublished
JOURNAL
  Contact: Robert B. Weiss
  University of Utah Genome Center
  University of Utah
  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
  84112, USA
  Tel: 801 585 5606
  Fax: 801 585 7177
  Email: ddunn@genetics.utah.edu
  Insert Length: 10000 Std Error: 0.00
  Plate: 0197 row: E column: 14
  Seq primer: CACACAGGAACAGCTATGACC
  Class: plasmid ends
  High quality sequence stop: 44.
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    /sex="male"
    /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
    /clone_lib="Mouse 10kb plasmid UUGC1M library"
    /note="Vector: PWD42nv; Purified genomic DNA from M.
    musculus C57BL/6J (male) was obtained from the Jackson
    Laboratory Mouse DNA Resource
    (http://www.jax.org/resources/documents/dnares/). The DNA
    was hydrodynamically sheared by repeated passage through a
    0.005 inch orifice at constant velocity. The sheared DNA
    was blunt end-repaired with T4 DNA polymerase and T4
    polynucleotide kinase. Adaptor oligonucleotides were
    ligated to the blunt ends in high molar excess. The
    adaptor DNA was purified and size-selected for a 9.5 to
    10.5 kb range using preparative agarose gel
    electrophoresis. Vector DNA was prepared from a derivative
    of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
    inducible derivative of plasmid R1. The vector was ligated
    with adaptors complementary to the insert adaptors and
    purified. The sheared, adaptor mouse DNA was annealed to
    adaptor vector DNA, and transformed into
    chemically-competent E. coli XL10-Gold (Stratagene) cells
    and selected for ampicillin resistance."
  BASE COUNT
    8 a 3 c 26 g 7 t
  ORIGIN
    Query Match
    Best Local Similarity 1.2%; Score 20.2; DB 28; Length 44;
    Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
  QY 894 TTGTACCTCCCAACCCCTTGAGCCCTGTGATCCCAACTCCA 934

```


was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of the insert adaptors and with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 12 a 6 c 24 g 7 t

ORIGIN

Query Match 1.2%; Score 19.6; DB 28; Length 49;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 930 CTCAGACTTCTCAACTCTTGCTGCTGTCGAGACCTCC 971

Db 49 CTCAGCCTTAGGACCTCTCTCTGCTCCACAGTCTCC 8

RESULT 14

AU106256

LOCUS

DEFINITION AU106256 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
KAI4033, mRNA sequence.

ACCESSION AU106256

VERSION AU106256.1 GI:13555777

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

REFERENCE

AUTHORS

Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, Y., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
11375929

COMMENT

Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S.
Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES

source

1. .50

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="KAI4033"

/clone_lib="Sugano Homo sapiens cDNA library"

14 a 16 c 9 g 11 t

BASE COUNT

ORIGIN

Query Match 1.2%; Score 19.6; DB 9; Length 50;

Best Local Similarity 66.7%; Pred. No. 1.2e+06;

Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 968 CTCAGGTCAGGAGTGCCTTGCATTCGACGCTTTAACTGCC 1009

Db 8 CCCAGGGGAGGTTCACAGTCTGCTGACTTTTAACTGCC 49

RESULT 15

H25033

LOCUS

DEFINITION

Y139f09.r1 Soares breast 3NbHBst Homo sapiens cDNA clone
IMAGE:160849 5', similar to SP:532603 S32603 COLLAGEN ALPHA 1 (VI)
CHAIN - MOUSE ;, mRNA sequence.

ACCESSION H25033

VERSION H25033.1 GI:893932

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

REFERENCE

AUTHORS

Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevisan, S., Waterston, R., Williamson, A., Wohlmann, P. and Wilson, R.
The WashU-Merck EST Project
Unpublished
Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 1426
High quality sequence starts: 1
High quality sequence stops: 1
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Insert Length: 1426 Std Error: 0.00
Seq Primer: M13Rp1
High quality sequence stop: 1.
Location/Qualifiers
1. .40

TITLE

JOURNAL

COMMENT

FEATURES

source

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="GDB:574710"

/db_xref="taxon:9606"

/clone="IMAGE:160649"

/sex="female"

/dev_stage="adult"

/lab_host="DH10B (ampicillin resistant)"

/clone_lib="Soares breast 3NbHBst"

/note="Organ: breast; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGAGCGCGCCCTTTTCTTTTCTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector (Pharmacia). Library went through one round of normalization to a Cot = 20. Library constructed by Bento Soares and M. Patina Bonaldo."

BASE COUNT

ORIGIN

8 a 9 c 14 g 7 t 2 others

Query Match 1.2%; Score 19.4; DB 14; Length 40;

Best Local Similarity 66.7%; Pred. No. 1.2e+06;

Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 664 GCTGAGCGACCTGAGGAGTCTGAGCGCGGAGCGCGTGA 702

Db 1 GCTGAGCGACTCTGAGCTNGTCAAGTTCGAGCCAGGCA 39

Search completed: December 10, 2003, 22:38:55

Job time : 3666 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 10, 2003, 21:37:47 ; Search time 548 Seconds
(without alignments)
9898.018 Million cell updates/sec

Title: US-10-006-911-3_COPY_1345_2976
Perfect score: 1632
Sequence: 1 tcagggaagaaatttc.....ttgtctgtgtcagattga 1632

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 2201672 seqs, 1661799599 residues

Total number of hits satisfying chosen parameters: 1223696

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:
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10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:
13: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:
14: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:
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17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:
18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30.6	1.9	31	9	US-09-801-274-92
2	30.6	1.9	31	9	US-09-801-274-93
3	20.6	1.3	41	10	US-09-850-165-64
4	20.6	1.3	41	15	US-10-211-357-33
5	20.6	1.3	45	13	US-10-282-960-95
6	20.4	1.2	37	13	US-10-150-048-13
7	20.4	1.2	40	11	US-09-865-281A-6
8	20.4	1.2	41	13	US-10-224-683-67
9	20.2	1.2	37	13	US-10-027-632-52319
10	20.2	1.2	37	13	US-10-027-632-52311
11	20.2	1.2	37	14	US-10-027-632-52319
12	20.2	1.2	37	14	US-10-027-632-52331
13	20	1.2	20	15	US-10-006-911-34
14	20	1.2	20	15	US-10-006-911-35
15	20	1.2	20	15	US-10-006-911-36

c 16	20	1.2	20	15	US-10-006-911-37	Sequence 37, Appl
c 17	20	1.2	20	15	US-10-006-911-38	Sequence 38, Appl
c 18	20	1.2	20	15	US-10-006-911-39	Sequence 39, Appl
c 19	20	1.2	20	15	US-10-006-911-40	Sequence 40, Appl
c 20	20	1.2	20	15	US-10-006-911-41	Sequence 41, Appl
c 21	20	1.2	20	15	US-10-006-911-42	Sequence 42, Appl
c 22	20	1.2	20	15	US-10-006-911-43	Sequence 43, Appl
c 23	20	1.2	20	15	US-10-006-911-44	Sequence 44, Appl
c 24	20	1.2	20	15	US-10-006-911-45	Sequence 45, Appl
c 25	20	1.2	20	15	US-10-006-911-46	Sequence 46, Appl
c 26	20	1.2	20	15	US-10-006-911-47	Sequence 47, Appl
c 27	20	1.2	20	15	US-10-006-911-48	Sequence 48, Appl
c 28	20	1.2	20	15	US-10-006-911-49	Sequence 49, Appl
c 29	20	1.2	20	15	US-10-006-911-50	Sequence 50, Appl
c 30	20	1.2	20	15	US-10-006-911-51	Sequence 51, Appl
c 31	20	1.2	20	15	US-10-006-911-52	Sequence 52, Appl
c 32	20	1.2	20	15	US-10-006-911-53	Sequence 53, Appl
c 33	20	1.2	20	15	US-10-006-911-54	Sequence 54, Appl
c 34	20	1.2	20	15	US-10-006-911-55	Sequence 55, Appl
c 35	20	1.2	20	15	US-10-006-911-56	Sequence 56, Appl
c 36	20	1.2	20	15	US-10-006-911-57	Sequence 57, Appl
c 37	20	1.2	20	15	US-10-006-911-58	Sequence 58, Appl
c 38	20	1.2	20	15	US-10-006-911-59	Sequence 59, Appl
c 39	20	1.2	20	15	US-10-006-911-60	Sequence 60, Appl
c 40	20	1.2	20	15	US-10-006-911-61	Sequence 61, Appl
c 41	20	1.2	20	15	US-10-006-911-62	Sequence 62, Appl
c 42	20	1.2	20	15	US-10-006-911-63	Sequence 63, Appl
c 43	20	1.2	20	15	US-10-006-911-64	Sequence 64, Appl
c 44	20	1.2	20	16	US-10-179-730-7	Sequence 7, Appl
c 45	19.8	1.2	41	10	US-09-850-165-63	Sequence 63, Appl

ALIGNMENTS

RESULT 1

US-09-801-274-92
; Sequence 92, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Lander, Eric S.
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: 2825.2009-001
; CURRENT APPLICATION NUMBER: US/09/801,274
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 60/187,510
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 60/206,129
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 1802
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 92
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-801-274-92

Query Match 1.9%; Score 30.6; DB 9; Length 31;
Best Local Similarity 96.8%; Pred. No. 16;
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 329 GGGACAGCCTGCTGCTGCTTGGACCACT 359
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Db 1 GGGACAGCCTGCTGCTGCTTGGACCACT 31

RESULT 2

US-09-801-274-93
; Sequence 93, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:

APPLICANT: Cargill, Michele
APPLICANT: Ireland, James S.
APPLICANT: Lander, Eric S.
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
FILE REFERENCE: 2825-2009-001
CURRENT APPLICATION NUMBER: US/09/801,274
CURRENT FILING DATE: 2001-03-07
PRIOR APPLICATION NUMBER: US 60/187,510
PRIOR FILING DATE: 2000-03-07
PRIOR APPLICATION NUMBER: US 60/206,129
PRIOR FILING DATE: 2000-05-22
NUMBER OF SEQ ID NOS: 1802
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 93
LENGTH: 31
TYPE: DNA
ORGANISM: Homo sapiens
US-09-801-274-93

Query Match 1.9%; Score 30.6; DB 9; Length 31;
Best Local Similarity 96.8%; Pred. No. 16;
Matches 30; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 973 GGTACAGGGCAGTGCCTTACACGTTTAAAC 1003
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Db 1 GGTACAGGGCAGTGCCTTACACGTTTAAAC 31

RESULT 3
US-09-850-165-64/c
Sequence 64, Application US/09850165
Patent No. US20020150580A1
GENERAL INFORMATION:
APPLICANT: NEWMAN, ROLAND A.
APPLICANT: RAAB, RONALD W.
TITLE OF INVENTION: RECOMBINANT ANTIBODIES FOR HUMAN THERAPY
CURRENT APPLICATION NUMBER: US/09/850,165
CURRENT FILING DATE: 2001-05-08
PRIOR APPLICATION NUMBER: 09/082,472
PRIOR FILING DATE: 1998-05-21
PRIOR APPLICATION NUMBER: 08/476,237
PRIOR FILING DATE: 1995-06-07
PRIOR APPLICATION NUMBER: 08/397,072
PRIOR FILING DATE: 1995-04-17
PRIOR APPLICATION NUMBER: 07/912,292
PRIOR FILING DATE: 1992-07-10
PRIOR APPLICATION NUMBER: 07/856,281
PRIOR FILING DATE: 1992-03-23
PRIOR APPLICATION NUMBER: 07/735,064
PRIOR FILING DATE: 1991-07-25
NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 64
LENGTH: 41
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-850-165-64

Query Match 1.3%; Score 20.6; DB 10; Length 41;
Best Local Similarity 69.2%; Pred. No. 2.9e+04;
Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

QY 1463 CTGAGAGGGGTTCCTCGTGGCCTGTATGACGACCTGTG 1501
|||||
Db 41 CTGAGTGGGGCCCTBTGTGTCATGCTGAGAGATCTGTG 3

RESULT 4
US-10-211-357-33/c

Sequence 33, Application US/10211357
Publication No. US20030077275A1
GENERAL INFORMATION:
APPLICANT: Hanna, Nabil
Newman, Roland A.
Reff, Mitchell E.
TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies for Human Therapy
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: 699 Prince Street
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22314-3187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/211,357
FILING DATE: 05-Aug-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/612,914A
FILING DATE: 10-Jul-2000
APPLICATION NUMBER: US 08/523,894
FILING DATE: 06-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Teskin, Robin L.
REGISTRATION NUMBER: 35,030
REFERENCE/DOCKET NUMBER: 012712-165
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-836-6620
TELEFAX: 703-836-2021
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 41 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Human or Monkey
POSITION IN GENOME:
CHROMOSOME/SEGMENT: kappa light chain primer with Bgl II site
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-10-211-357-33

Query Match 1.3%; Score 20.6; DB 15; Length 41;
Best Local Similarity 69.2%; Pred. No. 2.9e+04;
Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

QY 1463 CTGAGAGGGGTTCCTCGTGGCCTGTATGACGACCTGTG 1501
|||||
Db 41 CTGAGTGGGGCCCTBTGTGTCATGCTGAGAGATCTGTG 3

RESULT 5
US-10-282-960-95/c
Sequence 95, Application US/10282960
Publication No. US20030143228A1
GENERAL INFORMATION:
APPLICANT: Chen, Si-Yi
APPLICANT: Zhaoyang, You
APPLICANT: Schroers, Roland
TITLE OF INVENTION: Human Telomerase Reverse Transcriptase as a Class-II Restriction Enzyme
TITLE OF INVENTION: Associated Antigen
FILE REFERENCE: P02193US1
CURRENT APPLICATION NUMBER: US/10/282,960

; CURRENT FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: US 60/345,012
; PRIOR FILING DATE: 2001-10-29
; NUMBER OF SEQ ID NOS: 100
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 95
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Human
US-10-282-960-95

Query Match 1.3%; Score 20.6; DB 13; Length 45;
Best Local Similarity 67.4%; Pred. No. 3.1e+04;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY 810 TGGTGTATGGGAGCCCATCTGCCAGCTTGGAGCGACG 852
DB 43 TGGTGTCTGACGCGCCGTCACATCCACCTTGACAAAGTACAG 1

RESULT 6
US-10-150-048-13
; Sequence 13, Application US/10150048
; Publication No. US20030215907A1
; GENERAL INFORMATION:
; APPLICANT: Samuelson, James
; APPLICANT: Xu, Shuang-yong
; TITLE OF INVENTION: Method For Cloning And Expression of PpuMI Restriction Endonuclease
; FILE REFERENCE: NEB-204
; CURRENT APPLICATION NUMBER: US/10/150,048
; CURRENT FILING DATE: 2002-05-17
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Primer
US-10-150-048-13

Query Match 1.2%; Score 20.4; DB 13; Length 37;
Best Local Similarity 80.0%; Pred. No. 3.2e+04;
Matches 24; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 412 CATCAGGAGTGGCATTAAGGGCATCCAGGA 441
DB 4 CACCACCATATGGCAAAAGGGCATCCAGGA 33

RESULT 7
US-09-865-281A-6/c
; Sequence 6, Application US/09865281A
; Publication No. US20030103984A1
; GENERAL INFORMATION:
; APPLICANT: Kohler, Heinz
; TITLE OF INVENTION: FUSION PROTEINS OF BIOLOGICALLY ACTIVE PEPTIDES AND ANTIBODIES
; CURRENT APPLICATION NUMBER: US/09/865,281A
; CURRENT FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: 09/070,907
; PRIOR FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(40)
; OTHER INFORMATION: Synthesized oligonucleotide primer for Stat1 SH2 CDNA
US-09-865-281A-6

Query Match 1.2%; Score 20.4; DB 11; Length 40;
Best Local Similarity 71.1%; Pred. No. 3.4e+04;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 601 CATCATTTGCAGAGGAGGAGGAGGATCCTCGGATCTGG 638
DB 38 CATCATTTCCAGAGAGGAGGAGGATGTTTGGGGATCCGG 1

RESULT 8
US-10-224-683-67
; Sequence 67, Application US/10224683
; Publication No. US20030162192A1
; GENERAL INFORMATION:
; APPLICANT: Sotos, John
; APPLICANT: Rienhoff, Jr., Hugh
; APPLICANT: Guida, Marco
; APPLICANT: Curran, Mark
; TITLE OF INVENTION: Polymorphisms Associated with Ion-Channel Disease
; FILE REFERENCE: 4389-33
; CURRENT APPLICATION NUMBER: US/10/224,683
; CURRENT FILING DATE: 2002-01-06
; PRIOR APPLICATION NUMBER: 60/314,331
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/378,521
; PRIOR FILING DATE: 2002-05-06
; NUMBER OF SEQ ID NOS: 185
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67
; LENGTH: 41
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-224-683-67

Query Match 1.2%; Score 20.4; DB 13; Length 41;
Best Local Similarity 71.1%; Pred. No. 3.4e+04;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 419 GAGTGGCATTAAGGGCATCCAGGAGGAGATGGAAGCGCT 456
DB 4 GAGAAGGAAAGCGCTTTCCAGGAGCCCATGGAATGCT 41

RESULT 9
US-10-027-632-52319
; Sequence 52319, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,005
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52319
; LENGTH: 37
; TYPE: DNA


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; ORGANISM: Human
US-10-027-632-52319

Query Match
Best Local Similarity 1.2%; Score 20.2; DB 13; Length 37;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 744 ATATCACCAGGTGATGAGCAAAAGCTCTGCTG 776
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 5 ATATACCCAAGTTGAAGAGCAAAATCTCACGTG 37

RESULT 10
US-10-027-632-52331
; Sequence 52331, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52331
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-52331

Query Match
Best Local Similarity 1.2%; Score 20.2; DB 13; Length 37;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 744 ATATCACCAGGTGATGAGCAAAAGCTCTGCTG 776
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 5 ATATACCCAAGTTGAAGAGCAAAATCTCACGTG 37

RESULT 11
US-10-027-632-52319
; Sequence 52319, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52319
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-52319

Query Match
Best Local Similarity 1.2%; Score 20.2; DB 13; Length 37;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 744 ATATCACCAGGTGATGAGCAAAAGCTCTGCTG 776
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 5 ATATACCCAAGTTGAAGAGCAAAATCTCACGTG 37

RESULT 12
US-10-027-632-52331
; Sequence 52331, Application US/10027632
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52331
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-52331

Query Match
Best Local Similarity 1.2%; Score 20.2; DB 14; Length 37;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 744 ATATCACCAGGTGATGAGCAAAAGCTCTGCTG 776
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Db 5 ATATACCCAAGTTGAAGAGCAAAATCTCACGTG 37

RESULT 13
US-10-006-911-34/c
; Sequence 34, Application US/10006911
; Publication No. US20030125274A1
; GENERAL INFORMATION:
; APPLICANT: William Gaarde
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF COLLAPSEIN RESPONSE MEDIATOR PROTEIN 2 B
; FILE REFERENCE: RTS-0200
; CURRENT APPLICATION NUMBER: US/10/006,911
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; CURRENT FILING DATE: 2001-11-08
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-006-911-34

Query Match 1.2%; Score 20; DB 15; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.2e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCAGGGGAGAAAAATATTC 20
Db 20 TCAGGGGAGAAAAATATTC 1

RESULT 14
US-10-006-911-35/c
; Sequence 35, Application US/10006911
; Publication No. US20030125274A1
; GENERAL INFORMATION:
; APPLICANT: William Gaarde
; TITLE OF INVENTION: ANTISENSE MODULATION OF COLLAPLIN RESPONSE MEDIATOR PROTEIN 2 EXP
; FILE REFERENCE: RTS-0200
; CURRENT APPLICATION NUMBER: US/10/006,911
; CURRENT FILING DATE: 2001-11-08
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-006-911-35

Query Match 1.2%; Score 20; DB 15; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.2e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGAAAAATATTCACGCATC 28
Db 20 AGAAAAATATTCACGCATC 1

RESULT 15
US-10-006-911-36/c
; Sequence 36, Application US/10006911
; Publication No. US20030125274A1
; GENERAL INFORMATION:
; APPLICANT: William Gaarde
; TITLE OF INVENTION: ANTISENSE MODULATION OF COLLAPLIN RESPONSE MEDIATOR PROTEIN 2 EXP
; FILE REFERENCE: RTS-0200
; CURRENT APPLICATION NUMBER: US/10/006,911
; CURRENT FILING DATE: 2001-11-08
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-006-911-36

Query Match 1.2%; Score 20; DB 15; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.2e+04;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 15 ATATTCACGCATCAGCAGC 34

Db 20 ATATTCACGCATCAGCAGC 1

Search completed: December 11, 2003, 00:27:12
Job time : 550 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 10, 2003, 19:07:32 ; Search time 113 Seconds
(without alignments)
6374.666 Million cell updates/sec

Title: US-10-006-911-3_COPY_1345_2976
Perfect score: 1632
Sequence: 1 tcagggaagaataattc.....ttgtctgtctcagattga 1632

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 744296

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:
1: /cgn2_6/ptodata/2/ina/5A COMB.seq:
2: /cgn2_6/ptodata/2/ina/5B COMB.seq:
3: /cgn2_6/ptodata/2/ina/6A COMB.seq:
4: /cgn2_6/ptodata/2/ina/6B COMB.seq:
5: /cgn2_6/ptodata/2/ina/PTCUS COMB.seq:
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	23.2	1.4	39	2	US-08-455-968B-44
2	21.8	1.3	47	4	US-09-641-638-1191
3	21	1.3	45	1	US-08-440-391-25
4	21	1.3	45	2	US-08-908-597A-25
5	21	1.3	45	3	US-09-236-385A-25
6	21	1.3	45	5	PCT-US96-08122-25
7	20.6	1.3	41	1	US-08-478-039-40
8	20.6	1.3	41	1	US-08-476-349A-40
9	20.6	1.3	41	3	US-08-523-894-33
10	20.6	1.3	47	4	US-09-422-978-1050
11	19.8	1.2	33	3	US-09-054-492B-3
12	19.8	1.2	41	1	US-08-478-039-39
13	19.8	1.2	41	1	US-08-476-349A-39
14	19.8	1.2	41	3	US-08-803-085-5
15	19.8	1.2	41	3	US-08-523-894-32
16	19.8	1.2	47	4	US-09-422-978-2072
17	19.6	1.2	40	4	US-09-472-146A-3
18	19.6	1.2	47	4	US-09-422-978-3343
19	19.6	1.2	48	1	US-08-719-331-1
20	19.6	1.2	48	2	US-08-994-719C-1
21	19.6	1.2	50	1	US-08-672-571A-13
22	19.4	1.2	43	4	US-09-784-130-4
23	19.2	1.2	45	4	US-09-518-914-11
24	19.2	1.2	47	4	US-09-641-638-1284
25	19.2	1.2	49	3	US-09-275-850-197
26	19	1.2	29	4	US-07-672-530C-16
27	19	1.2	38	4	US-09-438-954-30

c 28	19	1.2	47	4	US-09-671-317-950
c 29	19	1.2	48	4	US-08-849-567A-98
c 30	19	1.2	48	4	US-08-706-945D-70
c 31	19	1.2	49	1	US-08-015-180-7
c 32	19	1.2	49	1	US-08-649-196-7
c 33	19	1.2	49	1	US-09-538-709-1062
c 34	19	1.2	50	3	US-09-315-886C-8
c 35	18.8	1.2	31	3	US-09-230-199-19
c 36	18.8	1.2	34	2	US-08-211-718-14
c 37	18.8	1.2	45	4	US-09-868-758-16
c 38	18.8	1.2	50	3	US-08-957-001B-8
c 39	18.8	1.2	50	3	US-09-456-301-8
c 40	18.6	1.1	33	4	US-09-427-834A-2
c 41	18.6	1.1	36	2	US-08-418-085-34
c 42	18.6	1.1	36	3	US-09-099-011A-34
c 43	18.6	1.1	47	4	US-09-422-978-2646
c 44	18.6	1.1	47	4	US-09-422-978-3871
c 45	18.4	1.1	45	2	US-08-484-993B-51

ALIGNMENTS

RESULT 1
US-08-455-968B-44
; Sequence 44, Application US/08455968E
; Patent No. 5874283
; GENERAL INFORMATION:
; APPLICANT: Harrington, John L.
; APPLICANT: Heieh, Chih-Lin
; APPLICANT: Lieber, Michael
; TITLE OF INVENTION: Mammalian Flap-Specific Endonuclease
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,968E
; FILING DATE: 30-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Apple, Randolph T.
; REGISTRATION NUMBER: 36,429
; REFERENCE/DOCKET NUMBER: 18985-000100
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-576-0200
; TELEFAX: 415-576-0300
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 39 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (oligonucleotide)
US-08-455-968E-44

Query Match 1.4%; Score 23.2; DB 2; Length 39;
Best Local Similarity 77.8%; Pred. No. 2e+03;
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 406 TGTGACATCCAGCGATGGTCATAAGGGCATCCAGGA 441
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Db 4 TGTGACCTTCATCCAGAAAGCACAGAGCATCGAGGA 39
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RESULT 2
US-09-641-638-1191
; Sequence 1191, Application US/09641638
; Patent No. 6432648
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Chumakov, Ilya
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GENSET-051CP1
; CURRENT APPLICATION NUMBER: US/09/641,638
; CURRENT FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 1191
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 10-24-234 : polymorphic base A or G
US-09-641-638-1191

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Query Match 1.3%; Score 21.8; DB 4; Length 47;
Best Local Similarity 67.4%; Pred. No. 5.4e+03;
Matches 29; Conservative 1; Mismatches 13; Indels 0; Gaps 0;

QY 425 CATAAGGCGCATCCAGGAGGAGATGGAAAGCGCTTGTGAAGGATC 467
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Dd 1 CAGGAGCGCTGTTCGGCAGGAGGTRCAAGAGCTTCTGAAGGACC 43
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RESULT 3
US-08-440-391-25
; Sequence 25, Application US/08440391
; Patent No. 5656725
; GENERAL INFORMATION:
; APPLICANT: CHITTENDEN, Thomas D.; and
; APPLICANT: LUTZ, Robert J.
; TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS WHICH
; TITLE OF INVENTION: MODULATE APOPTOSIS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hale and Dorr
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/440,391
; FILING DATE: 12-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: WIXON, HENRY N.
; REGISTRATION NUMBER: 32,073
; REFERENCE/DOCKET NUMBER: 104322.147

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-942-8400
; TELEFAX: 202-942-8484
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-440-391-25

Query Match 1.3%; Score 21; DB 1; Length 45;
Best Local Similarity 73.0%; Pred. No. 8.9e+03;
Matches 27; Conservative 0; Mismatches 10; Indels

Qy 414 TCAGCGAGTGGCATAAAGGCGATCCAGGAGGAGATGGA 450
Db 2 TGAGCGAGTGTCTCAAGCGCATCGGGGACCAACTGGA 38

RESULT 4
US-08-908-597A-25
; Sequence 25, Application US/08908597A
; Patent No. 5863795
; GENERAL INFORMATION:
; APPLICANT: CHITTENDEN, Thomas D.; and
; APPLICANT: LUTZ, Robert J.
; TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS WHICH
; TITLE OF INVENTION: MODULATE APOPTOSIS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:

```

STREET: 1455 Pennsylvania Avenue, N.W.

CITY: Washington
STATE: D.C.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/908,597A

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Query Match 1.3%; Score 21; DB 2; Length 45;
Best Local Similarity 73.0%; Pred. No. 8.9e+03;
Matches 27; Conservative 0; Mismatches 10; Indels

Qy
Db

414 TCAGCGAGTGGCATAAAGGCGATCCAGGAGGAGATGGA 450
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2 TGAGCGAGTGTTCTCAAGCGGCATCGGGACGAAC TGGGA 38
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RESULT 5
US-09-236-385A-25
; Sequence 25, Application US/09236385A
; Patent No. 6221615
; GENERAL INFORMATION:
; APPLICANT: CHITTENDEN, Thomas D.; and
; LUTZ, Robert J.
; TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS WHICH
; MODULATE APOPTOSIS
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hale and Dorr
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/236,385A
; FILING DATE: 25-Jan-1999
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: WIXON, HENRY N.
; REGISTRATION NUMBER: 32,073
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-942-8400
; TELEFAX: 202-942-8484
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-09-236-385A-25
Query Match 1.3%; Score 21; DB 3; Length 45;
Best Local Similarity 73.0%; Pred. No. 8.9e+03;
Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
Qy 414 TCAGCGAGTGGCTCAAGCGCATCCAGGAGGATGGA 450
Db 2 TGAGCGAGTGTCTCAAGCGCATCGGGGAGCACTGGA 38
RESULT 6
PCT-US96-06122-25
; Sequence 25, Application PC/TUS9606122
; GENERAL INFORMATION:
; APPLICANT: IMMUNOGEN, INC.
; TITLE OF INVENTION: NOVEL PEPTIDES AND COMPOSITIONS
; WHICH MODULATE APOPTOSIS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hale and Dorr
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/06122

; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/440,391
; FILING DATE: 12-MAY-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: WIXON, HENRY N.
; REGISTRATION NUMBER: 32,073
; REFERENCE/DOCKET NUMBER: 104322.147PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-942-8400
; TELEFAX: 202-942-8484
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 45 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; PCT-US96-06122-25
Query Match 1.3%; Score 21; DB 5; Length 45;
Best Local Similarity 73.0%; Pred. No. 8.9e+03;
Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
Qy 414 TCAGCGAGTGGCTCAAGCGCATCCAGGAGGATGGA 450
Db 2 TGAGCGAGTGTCTCAAGCGCATCGGGGAGCACTGGA 38
RESULT 7
US-08-478-039-40/c
; Sequence 40, Application US/08478039
; Patent No. 5681722
; GENERAL INFORMATION:
; APPLICANT: Newman, Roland A.
; APPLICANT: Hanna, Nabil
; APPLICANT: Raab, Ronald W.
; TITLE OF INVENTION: Recombinant Antibodies for Human Therapy
; NUMBER OF SEQUENCES: 114
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: 699 Prince St.
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,039
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/379,072
; FILING DATE: 25-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/912,292
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/856,281
; FILING DATE: 23-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/735,064
; FILING DATE: 25-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin Esq., Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-160

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 41 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens or Monkey
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: kappa light chain primer with BglII site
US-08-476-039-40

Query Match 1.3%; Score 20.6; DB 1; Length 41;
Best Local Similarity 69.2%; Pred. No. 1.1e+04;
Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

QY 1463 CTGAGAGGGGTTCTCGTGGCCCTGTATGACGACCTGTG 1501
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Db 41 CTGAGTGGGGCCCTBGTGTCCATGCTGAGAGATCTGTG 3

RESULT 8
US-08-476-349A-40/c
; Sequence 40, Application US/08476349A
; Patent No. 5750105
; GENERAL INFORMATION:
; APPLICANT: Newman, Roland A.
; APPLICANT: Hanna, Nabil
; APPLICANT: Raab, Ronald W.
; TITLE OF INVENTION: Recombinant Antibodies for Human Therapy
; NUMBER OF SEQUENCES: 114
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: 699 Prince St.
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; FILING DATE: 25-JAN-1995
; PRIOR APPLICATION NUMBER: US 08/379,072
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION NUMBER: US 07/912,292
; FILING DATE: 23-MAR-1992
; PRIOR APPLICATION NUMBER: US 07/856,281
; FILING DATE: 25-JUL-1991
; PRIOR APPLICATION NUMBER: US 07/735,064
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin Esq., Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-161
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-6620
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 41 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Human or Monkey
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: kappa light chain primer with Bgl II site
US-08-523-894-33

Query Match 1.3%; Score 20.6; DB 3; Length 41;
Best Local Similarity 69.2%; Pred. No. 1.1e+04;
Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

;
; LENGTH: 41 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens or Monkey
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: kappa light chain primer with BglII site
US-08-476-349A-40

Query Match 1.3%; Score 20.6; DB 1; Length 41;
Best Local Similarity 69.2%; Pred. No. 1.1e+04;
Matches 27; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

QY 1463 CTGAGAGGGGTTCTCGTGGCCCTGTATGACGACCTGTG 1501
||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 41 CTGAGTGGGGCCCTBGTGTCCATGCTGAGAGATCTGTG 3

RESULT 9
US-08-523-894-33/c
; Sequence 33, Application US/08523894
; Patent No. 6136310
; GENERAL INFORMATION:
; APPLICANT: Hanna, Nabil
; APPLICANT: Newman, Roland A.
; APPLICANT: Reff, Mitchell E.
; TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies for Human
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: 699 Prince Street
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 06-SEP-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-165
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 41 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Human or Monkey
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: kappa light chain primer with Bgl II site
US-08-523-894-33
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QY 1463 CTGAGGAGGTTCTCTGTCGCTGTATGACGACCTGTG 1501
Db 41 CTGAGTGGGGCCCTBTGTCTCCATGGTGAGAGATCTGTG 3

RESULT 10

US-09-422-978-1050/c
; Sequence 1050, Application US/09422978
; Patent No. 6537751
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilva
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET 020CP1
; CURRENT APPLICATION NUMBER: US/09/422,978
; CURRENT FILING DATE: 1999-10-20
; EARLIER APPLICATION NUMBER: US 09/298,850
; EARLIER FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 60/109,732
; EARLIER FILING DATE: 1998-11-23
; EARLIER APPLICATION NUMBER: US 60/082,614
; EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 1050
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 99-20023-386 : polymorphic base A or T
US-09-422-978-1050

Query Match 1.3%; Score 20.6; DB 4; Length 47;
Best Local Similarity 64.4%; Pred. No. 1.2e+04;
Matches 29; Conservative 1; Mismatches 15; Indels 0; Gaps 0;

QY 477 ATTCTTCTCTGTGTACATGCTTTCAAAGATCGCTTCCAGCTAA 521
Db 46 AATGCTTCTCTGTGTACATGCTTTCTGGACTACAGCAGGTCA 2

RESULT 11

US-09-054-492B-3/c
; Sequence 3, Application US/09054492B
; Patent No. 6218115
; GENERAL INFORMATION:
; APPLICANT: TAKESHI NAKAMURA
; TITLE OF INVENTION: HUMAN CYCLIN I AND GENES ENCODING SAME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PILLSBURY, MADISON & SUTRO
; STREET: 1100 NEW YORK AVENUE, N.W.
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/054,492B
; FILING DATE: APRIL 3, 1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: PAUL E. WHITE, JR.
; REGISTRATION NUMBER: 32,011
; REFERENCE/DOCKET NUMBER: 7898/250159
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 861-3000

; TELEFAX: (202) 822-0944
; TELEX: 6714627CUSH
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:

; LENGTH: 33
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-09-054-492B-3

Query Match 1.2%; Score 19.8; DB 3; Length 33;
Best Local Similarity 77.4%; Pred. No. 1.7e+04;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1377 CCGAAGGCTCTGGACGCTACATTCCTCCCGAA 1407
Db 33 CCAAGGGCCCTGGAACTTCATACCCGGAA 3

RESULT 12

US-08-478-039-39/c
; Sequence 39, Application US/08478039
; Patent No. 5681722
; GENERAL INFORMATION:
; APPLICANT: Newman, Roland A.
; APPLICANT: Hanna, Nabil
; APPLICANT: Raab, Ronald W.
; TITLE OF INVENTION: Recombinant Antibodies for Human Therapy
; NUMBER OF SEQUENCES: 114
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: 699 Prince St.
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,039
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/379,072
; FILING DATE: 25-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/912,292
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/856,281
; FILING DATE: 23-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/735,064
; FILING DATE: 25-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin Esq., Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-160
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 41 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ANTI-SENSE: NO


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;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: 699 Prince Street
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22314-3187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/523,894
; FILING DATE: 06-SEP-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin, Robin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-165
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 41 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Human or Monkey
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: kappa light chain primer with Bgl II site
; US-08-523-894-32

Query Match      1.2%; Score 19.8; DB 3; Length 41;
Best Local Similarity 69.2%; Pred.No.1.9e+04;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.
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Gapop 10.0 , Gapext 1.0

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24: /SIDSL1/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*
25: /SIDSL1/gcgdata/geneseq/geneseq-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	31	1.9	31	AA129604	Human single nucle
2	31	1.9	31	AA129605	Human single nucle
3	23.2	1.4	39	AA02133	Human FEN-1 DNA fr
4	23	1.4	41	ABK14176	Insulin like growt
5	22	1.3	22	AAV60829	Primer 509 for ULI
6	22	1.3	22	AA029279	Human CRMP-2 ampli
7	21.8	1.3	50	AA132108	Human SNP oligonuc
8	21.4	1.3	41	ABK14175	Insulin like growt

9	21	1.3	21	AAF95365	Human gene single
10	21	1.3	21	AAF95366	Human gene single
11	21	1.3	21	AAF95367	Human gene single
12	21	1.3	21	AA029278	Human CRMP-2 ampli
13	21	1.3	45	AA029278	GD domain region f
14	21	1.3	45	AA029278	DNA encoding Bax G
15	21	1.3	45	ABK11181	Human map-related
16	21	1.3	47	AAZ66703	Human SNP oligonuc
17	20.8	1.3	50	AA029278	Human or monkey ka
18	20.6	1.3	41	AA029278	Human or monkey ka
19	20.6	1.3	41	AA029278	Human or monkey ka
20	20.6	1.3	41	AA029278	Human or monkey ka
21	20.6	1.3	41	AA029278	Human or monkey ka
22	20.6	1.3	41	AA029278	Human or monkey ka
23	20.6	1.3	41	AA029278	Human or monkey ka
24	20.6	1.3	41	AA029278	Human or monkey ka
25	20.6	1.3	41	AA029278	Human or monkey ka
26	20.6	1.3	41	AA029278	Human or monkey ka
27	20.6	1.3	41	AA029278	Human or monkey ka
28	20.4	1.2	33	ABK91333	Human JFY1, p53-bi
29	20.4	1.2	33	ABK91333	Human JFY1, p53-bi
30	20.4	1.2	40	ABK91333	Human JFY1, p53-bi
31	20.2	1.2	40	ABK91333	Human JFY1, p53-bi
32	20	1.2	20	AAV60828	Primer 5227 for UL
33	20	1.2	49	AAV60828	PCR primer for a h
34	20	1.2	50	AAV60828	Nucleotide sequenc
35	19.8	1.2	33	AAV60828	Primer for human c
36	19.8	1.2	40	AAV60828	Rat IgE CH3 domain
37	19.8	1.2	41	AAV60828	Human or monkey ka
38	19.8	1.2	41	AAV60828	Human or monkey ka
39	19.8	1.2	41	AAV60828	Human or monkey ka
40	19.8	1.2	41	AAV60828	Human or monkey ka
41	19.8	1.2	41	AAV60828	Human or monkey ka
42	19.8	1.2	41	AAV60828	Human or monkey ka
43	19.8	1.2	41	AAV60828	Human or monkey ka
44	19.8	1.2	41	AAV60828	Human or monkey ka
45	19.8	1.2	41	AAV60828	Human or monkey ka

ALIGNMENTS

RESULT 1
AA129604 standard; DNA; 31 BP.
AA129604;
18-OCT-2001 (first entry)
Human single nucleotide polymorphism (SNP) DPYSL2 1.
Human; resequence; genotype; disease; forensic; paternity testing;
single nucleotide polymorphism; SNP; ss.
Homo sapiens.
Key Variation Location/Qualifiers
replace(16,A)
/*tag= a
/standard_name= "single nucleotide polymorphism"
WC200166800-A2.
13-SEP-2001.
07-MAR-2001; 2001WO-US07268.
07-MAR-2000; 2000US-0187510.
22-MAY-2000; 2000US-0206129.
(WHEED) WHITEHEAD INST BIOMEDICAL RES.

PI Cargill M, Ireland JS, Lander ES;
 XX WPI; 2001-522952/57.
 XX
 CC Nucleic acid molecules from the human genome which include polymorphic
 CC sites, useful in methods for predicting the presence, absence or
 PT severity of a particular phenotype or disorder (e.g. diabetes)
 PT associated with a particular genotype -
 XX
 PS Claim 1; Page 34; 145pp; English.
 XX
 CC The invention relates to the identification of nucleic acid molecules
 CC (AAI29513-AAI31314) from the human genome which include polymorphic sites
 CC which can predispose individuals to disease. Various genes from a number
 CC of individuals were resequenced and single nucleotide polymorphisms
 CC (SNPs) in these genes discovered. The method is useful for predicting the
 CC presence, absence or severity of a particular phenotype or disorder (e.g.
 CC diabetes) associated with a particular genotype. The nucleic acids
 CC containing the polymorphic sites may be useful in forensics and paternity
 CC testing.
 XX
 SQ Sequence 31 BP; 5 A; 10 C; 9 G; 7 T; 0 other;
 Query Match 1.9%; Score 31; DB 22; Length 31;
 Best Local Similarity 100.0%; Pred. No. 68;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 329 GGCACAGCCTGCTGCTGCTTGTGACCACT 359
 |||||
 DB 1 GGCACAGCCTGCTGCTGCTTGTGACCACT 31
 RESULT 2
 AAI29605
 ID AAI29605 standard; DNA; 31 BP.
 AC AAI29605;
 XX
 XX 18-OCT-2001 (first entry)
 DT
 DE Human single nucleotide polymorphism (SNP) DPYSL2 2.
 XX
 XX Human; resequence; genotype; disease; forensic; paternity testing;
 KW single nucleotide polymorphism; SNP; ss.
 KW
 XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 FH Variation replace(16,G)
 FT /*tag= a
 FT /standard_name= "single nucleotide polymorphism"
 XX
 PN W0200166800-A2.
 XX
 XX 13-SEP-2001.
 XX
 XX 07-MAR-2001; 2001WO-US07268.
 XX
 XX 07-MAR-2000; 2000US-0187510.
 XX 22-MAY-2000; 2000US-0206129.
 XX
 XX (WHED) WHITEHEAD INST BIOMEDICAL RES.
 PA Cargill M, Ireland JS, Lander ES;
 PI WPI; 2001-522952/57.
 XX
 XX Nucleic acid molecules from the human genome which include polymorphic
 FT sites, useful in methods for predicting the presence, absence or
 FT severity of a particular phenotype or disorder (e.g. diabetes)
 FT associated with a particular genotype -
 XX
 XX Claim 1; Page 34; 145pp; English.

XX The invention relates to the identification of nucleic acid molecules
 CC (AAI29513-AAI31314) from the human genome which include polymorphic sites
 CC which can predispose individuals to disease. Various genes from a number
 CC of individuals were resequenced and single nucleotide polymorphisms
 CC (SNPs) in these genes discovered. The method is useful for predicting the
 CC presence, absence or severity of a particular phenotype or disorder (e.g.
 CC diabetes) associated with a particular genotype. The nucleic acids
 CC containing the polymorphic sites may be useful in forensics and paternity
 CC testing.
 XX
 SQ Sequence 31 BP; 6 A; 9 C; 9 G; 7 T; 0 other;
 Query Match 1.9%; Score 31; DB 22; Length 31;
 Best Local Similarity 100.0%; Pred. No. 68;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 973 GGTCAAGGCGAGTGCCTTGTGACGTTTAAAC 1003
 |||||
 DB 1 GGTCAAGGCGAGTGCCTTGTGACGTTTAAAC 31
 RESULT 3
 AAX02133
 ID AAX02133 standard; DNA; 39 BP.
 XX
 AC AAX02133;
 XX
 XX 23-APR-1999 (first entry)
 DT
 XX Human FEN-1 DNA fragment #16.
 DE
 XX FEN-1; human; flap endonuclease; detection; diagnosis; carcinogen;
 KW neoplasia; antineoplastic agent; cleavage; ss.
 KW
 XX Homo sapiens.
 OS
 XX US5874283-A.
 PN
 XX 23-FEB-1999.
 PD
 XX 30-MAY-1995; 95US-0455968.
 PF
 XX 30-MAY-1995; 95US-0455968.
 PR
 XX (HARR/) HARRINGTON J J.
 PA (HSIE/) HSIEH C.
 PA (LIEB/) LIEBER M R.
 XX
 XX Harrington JJ, Hsieh C, Lieber MR;
 PI WPI; 1999-179985/15.
 XX
 XX DNA encoding flap endonuclease polypeptides - useful for producing
 FT e.g. recombinant polypeptides
 FT
 XX Claim 2; Column 25-26; 58pp; English.
 PS
 XX AAX02118-X02140 represent fragments of a human FEN-1 (flap endonuclease)
 CC protein. This protein can be used in methods for detecting a
 CC pathological condition in a patient, for diagnostic purposes, for
 CC screening for antineoplastic agents and carcinogens, for diagnostic
 CC staging of neoplasia, for producing recombinant flap endonuclease for use
 CC as research or diagnostic reagents, for producing antibodies reactive
 CC with the novel polypeptides, for producing transgenic nonhuman animals
 CC expressing the novel polypeptides encoded by a transgene. The invention
 CC also provides novel molecular cloning techniques and reagents involving
 CC cleavage of a flap or nick with a flap endonuclease.
 XX
 SQ Sequence 39 BP; 12 A; 10 C; 12 G; 5 T; 0 other;
 Query Match 1.4%; Score 23.2; DB 20; Length 39;
 Best Local Similarity 77.8%; Pred. No. 1.2e+04;

PT Isolated nucleic acids (N) which encode CRMP-5 polypeptides are useful
 PT in detecting anti-CRMP-5 autoantibodies in a patient with
 PT paraneoplastic neurological manifestations and neoplasm -
 XX
 XX Example 2; Page 9; 40pp; English.

CC The invention relates to human collapse response-mediator protein-5
 CC (CRMP-5) and nucleic acid molecules encoding such proteins. The
 CC presence of anti-CRMP-5 autoantibody in a biological sample is
 CC associated with paraneoplastic autoimmunity in the individual and
 CC neoplasm such as small-cell lung carcinoma, neuroblastoma and thymoma.
 CC The present sequence is human CRMP-2 (dihydropyrimidinase related
 CC protein-2, DRP-2) amplifying PCR primer used in the exemplification
 CC of the invention.

XX
 XX Sequence 22 BP; 2 A; 4 C; 8 G; 8 T; 0 other;
 SQ

Query Match 1.3%; Score 22; DB 24; Length 22;
 Best Local Similarity 100.0%; Pred. No. 1.9e+04;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1229 GACCCGACGCGTTAAACCA 1250
 DB 22 GACCCGACGCGTTAAACCA 1

RESULT 7
 AAL32108/C
 ID AAL32108 standard; DNA; 50 BP.
 XX
 AC AAL32108;
 DT 24-JAN-2002 (first entry)
 XX
 DE Human SNP oligonucleotide #5316.
 XX

XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
 KW neuroprotective; antimicrobial; gene therapy; vaccine; amyase; cancer;
 KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
 KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
 KW complement related protein; cytochrome; kinesin; cytokine; interferon;
 KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
 KW multifactorial disease; autoimmune disease; infection;
 KW nervous system disease; ss.

XX Homo sapiens.
 OS
 XX WO200147944-A2.
 XX
 XX 05-JUL-2001.
 XX
 XX 28-DEC-2000; 2000WO-US35498.
 XX
 XX 28-DEC-1999; 99US-0173419.
 XX
 XX 27-DEC-2000; 2000US-0173419.
 XX
 XX (CURA-) CURAGEN CORP.
 XX
 XX Shimketa RA, Leach M;
 XX
 XX WPI; 2001-465210/50.
 XX

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
 PT oncogenes and histones, useful for diagnosing and treating, e.g.
 PT cancer, autoimmune diseases and infections -
 XX
 XX Claim 1; Page 2917; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
 CC variants of proteins related to amylases, amyloid proteins, angiotensin,
 CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
 CC histones, kinases, colony stimulating factors, complement related
 CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,

CC G-protein coupled receptors and thioesterases. The present sequence is
 CC one such oligonucleotide. The oligonucleotides and the peptides encoded
 CC by them may be used in the prevention, diagnosis and treatment of
 CC diseases associated with inappropriate expression of the proteins listed
 CC above. Disorders that may be prevented, diagnosed and/or treated include
 CC multifactorial diseases with a genetic component, such as autoimmune
 CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
 CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
 CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
 CC leukaemia), diseases of the nervous system and an infection of pathogenic
 CC organisms.

XX
 XX Sequence 50 BP; 12 A; 22 C; 8 G; 8 T; 0 other;
 SQ

Query Match 1.3%; Score 21.8; DB 22; Length 50;
 Best Local Similarity 70.7%; Pred. No. 3.3e+04;
 Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1454 CTGGCTGAGCTGAGAGGGGTTCTCGTGGCTGTATGACGG 1494
 DB 50 CTGGTGGGTATAGAGGGGCTCTGCTGGCTCTAGGATGG 10

RESULT 8
 ABK14175
 ID ABK14175 standard; DNA; 41 BP.
 XX
 AC ABK14175;
 XX
 DT 21-MAY-2002 (first entry)
 XX

XX Insulin like growth factor binding protein 11.88 cDNA probe #1.
 DE
 XX Insulin like growth factor binding protein 11.88; probe; ss; cytostatic;
 KW embryo development dysmorphia; malignant tumour; gene therapy; cancer.
 KW
 XX Unidentified.
 OS
 XX WO200212493-A1.
 XX
 XX 14-FEB-2002.
 XX

XX 11-JUN-2001; 2001WO-CN00951.
 XX
 XX 14-JUN-2000; 2000CN-0116491.
 XX
 XX (BIOW-) BIOWINDOW GENE DEV INC SHANGHAI.
 XX
 XX Mao Y, Xie Y;
 XX
 XX WPI; 2002-172159/22.
 XX

XX Insulin like growth factor binding protein 11.88 and encoding
 PT polynucleotide, used in diagnosis and treatment of malignant tumours -
 XX
 XX Example 6; Page 15; 38pp; Chinese.

XX The invention relates to an insulin like growth factor binding protein
 CC 11.88 and the DNA sequence encoding the polypeptide. The DNA and protein
 CC are used in diagnosis and treatment of malignant tumour and dysmorphia of
 CC development of an embryo. This sequence represents a probe which
 CC hybridises to cDNA which encodes the insulin like growth factor binding
 CC protein 11.88 of the invention.

XX
 XX Sequence 41 BP; 5 A; 14 C; 11 G; 11 T; 0 other;
 SQ

Query Match 1.3%; Score 21.4; DB 24; Length 41;
 Best Local Similarity 71.8%; Pred. No. 3.9e+04;
 Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1195 TGCTGTGGGATCCGATGCCGACCTGTCTATCTGGGACCC 1233
 DB 3 TGCTGGGGGATCCCTTCCACCCCGAGTCATTTGGGACTC 41

RESULT 9

AAF95365

ID AAF95365 standard; DNA; 21 BP.

XX AC

XX AAF95365;

XX DT 06-JUN-2001 (first entry)

XX DE Human gene single nucleotide polymorphism #126.

XX KW Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
 XX KW polymorphism; vascular disease; coronary artery disease; forensics;
 XX KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
 XX KW pulmonary embolism; paternity test; ds.

XX OS Homo sapiens.

XX FH Key

XX FT Variation

XX FT Location/Qualifiers

XX FT replace(11,G)

XX FT /*tag= a

XX FT /standard_name= "single nucleotide polymorphism"

XX EN WO200118250-A2.

XX PD 15-MAR-2001.

XX PF 07-SEP-2000; 2000WO-US24503.

XX PR 10-SEP-1999; 99US-0153357.

XX PR 26-JUL-2000; 2000US-0220947.

XX PR 16-AUG-2000; 2000US-0225724.

XX PA (WHED) WHITEHEAD INST BIOMEDICAL RES.

XX PA (MILL-) MILLENNIUM PHARM INC.

XX PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;

XX DR WPI; 2001-226749/23.

XX Nucleic acids comprising single nucleotide polymorphisms, useful in

XX applications such as forensics, paternity testing, medicine, genetic

XX analysis and phenotype correlations to diseases such as diabetes and

XX atherosclerosis -

XX Examples; Page 57; 242pp; English.

XX The present invention provides a method of diagnosing a vascular disease

XX in an individual, involving determining the sequence at various

XX polymorphic sites within the human thrombospondin 1 and thrombospondin 4

XX genes. The sequences at a number of polymorphic sites are also provided

XX in the specification. In particular, the method can be used in the

XX diagnosis of atherosclerosis, myocardial infarction, coronary heart

XX disease, stroke, peripheral vascular diseases, venous thromboembolism

XX and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also

XX useful in forensics, paternity testing, genetic analysis and phenotype

XX correlations to diseases. The present sequence is an example of one of

XX the human gene SNPs shown in the specification.

XX SQ Sequence 21 BP; 7 A; 4 C; 9 G; 1 T; 0 other;

XX Query Match 1.3%; Score 21; DB 22; Length 21;

XX Best Local Similarity 100.0%; Pred. No. 3.6e+04;

XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 608 GCAGAGGAGCAGCAGGATC 628

XX DB 1 GCAGAGGAGCAGCAGGATC 21

XX RESULT 10

AAF95366

ID AAF95366 standard; DNA; 21 BP.

XX AC

XX AAF95366;

XX DT

XX 06-JUN-2001 (first entry)

XX DE

XX Human gene single nucleotide polymorphism #127.

XX KW

XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP;

XX KW polymorphism; vascular disease; coronary artery disease; forensics;

XX KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;

XX KW pulmonary embolism; paternity test; ds.

XX OS

XX Homo sapiens.

XX FH Key

XX FT Variation

XX FT Location/Qualifiers

XX FT replace(11,C)

XX FT /*tag= a

XX FT /standard_name= "single nucleotide polymorphism"

XX PN WO200118250-A2.

XX PD 15-MAR-2001.

XX PF 07-SEP-2000; 2000WO-US24503.

XX PR 10-SEP-1999; 99US-0153357.

XX PR 26-JUL-2000; 2000US-0220947.

XX PR 16-AUG-2000; 2000US-0225724.

XX PA (WHED) WHITEHEAD INST BIOMEDICAL RES.

XX PA (MILL-) MILLENNIUM PHARM INC.

XX PI Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;

XX DR WPI; 2001-226749/23.

XX Nucleic acids comprising single nucleotide polymorphisms, useful in

XX applications such as forensics, paternity testing, medicine, genetic

XX analysis and phenotype correlations to diseases such as diabetes and

XX atherosclerosis -

XX Examples; Page 57; 242pp; English.

XX The present invention provides a method of diagnosing a vascular disease

XX in an individual, involving determining the sequence at various

XX polymorphic sites within the human thrombospondin 1 and thrombospondin 4

XX genes. The sequences at a number of polymorphic sites are also provided

XX in the specification. In particular, the method can be used in the

XX diagnosis of atherosclerosis, myocardial infarction, coronary heart

XX disease, stroke, peripheral vascular diseases, venous thromboembolism

XX and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also

XX useful in forensics, paternity testing, genetic analysis and phenotype

XX correlations to diseases. The present sequence is an example of one of

XX the human gene SNPs shown in the specification.

XX SQ

XX Sequence 21 BP; 5 A; 3 C; 8 G; 5 T; 0 other;

XX Query Match 1.3%; Score 21; DB 22; Length 21;

XX Best Local Similarity 100.0%; Pred. No. 3.6e+04;

XX Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX QY 1488 ATGACGACCTGTGTGTGAAG 1508

XX DB 1 ATGACGACCTGTGTGTGAAG 21

XX RESULT 11

AAF95367

ID AAF95367 standard; DNA; 21 BP.

XX AC

XX AAF95367;

XX XX

DT 06-JUN-2001 (first entry)
XX Human gene single nucleotide polymorphism #128.
DE
XX
XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
KW polymorphism; vascular disease; coronary artery disease; forensics;
KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
KW pulmonary embolism; paternity test; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Variation replace(11,T)
XX /*tag= a
XX /standard_name= "single nucleotide polymorphism"
XX W0200118250-A2.
XX
XX 15-MAR-2001.
XX
XX 07-SEP-2000; 2000WO-US24503.
XX
XX 10-SEP-1999; 99US-0153357.
XX 26-JUL-2000; 2000US-0220947.
XX 16-AUG-2000; 2000US-0225724.
XX
XX (WHEH) WHITEHEAD INST BIOMEDICAL RES.
XX (MILL-) MILLENNIUM PHARM INC.
XX
XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, McCarthy JJ;
XX WPI; 2001-226749/23.
XX
XX Nucleic acids comprising single nucleotide polymorphisms, useful in
XX applications such as forensics, paternity testing, medicine, genetic
XX analysis and phenotype correlations to diseases such as diabetes and
XX atherosclerosis -
XX
XX Examples; Page 57; 242pp; English.
XX
XX The present invention provides a method of diagnosing a vascular disease
XX in an individual, involving determining the sequence at various
XX polymorphic sites within the human thrombospondin 1 and thrombospondin 4
XX genes. The sequences at a number of polymorphic sites are also provided
XX in the specification. In particular, the method can be used in the
XX diagnosis of atherosclerosis, myocardial infarction, coronary heart
XX disease, stroke, peripheral vascular diseases, venous thromboembolism
XX and pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
XX useful in forensics, paternity testing, genetic analysis and phenotype
XX correlations to diseases. The present sequence is an example of one of
XX the human gene SNPs shown in the specification.
XX
XX Sequence 21 BP; 7 A; 10 C; 2 G; 2 T; 0 other;
XX
Query Match 1.3%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 3.6e+04;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 708 CCATCACCACGCGCCACACGAGA 728
DB 1 CCATCACCACGCGCCACACGAGA 21
RESULT 12
AAD29278
ID AAD29278 standard; DNA; 21 BP.
XX
XX AAD29278;
AC
XX
XX 07-MAY-2002 (first entry)
DT
DE Human CRMP-2 amplifying PCR primer, CRMP2-3.
XX

KW Human; collapsin response-mediator protein-5; CRMP-5; neoplasm;
KW paraneoplastic autoimmunity; small-cell lung carcinoma; thymoma;
KW neuroblastoma; CRMP-2; dihydropyrimidinase related protein-2;
KW DRP-2; PCR primer; ss.
XX
XX Homo sapiens.
OS
XX W0200202620-A2.
XX
XX 10-JAN-2002.
XX
XX 28-JUN-2001; 2001WO-US20507.
XX
XX 29-JUN-2000; 2000US-060924.
XX
XX (MAYO-) MAYO FOUND MEDICAL EDUCATION RES.
XX
XX Lennon VA, Yu Z, Kryzer TJ, Griesmann GS;
PI WPI; 2002-171637/22.
XX
XX Isolated nucleic acids (N) which encode CRMP-5 polypeptides are useful
XX in detecting anti-CRMP-5 autoantibodies in a patient with
XX paraneoplastic neurological manifestations and neoplasm -
XX
XX Example 2; Page 9; 40pp; English.
XX
XX The invention relates to human collapsin response-mediator protein-5
XX (CRMP-5) and nucleic acid molecules encoding such proteins. The
XX presence of anti-CRMP-5 autoantibody in a biological sample is
XX associated with paraneoplastic autoimmunity in the individual and
XX neoplasm such as small-cell lung carcinoma, neuroblastoma and thymoma.
XX The present sequence is human CRMP-2 (dihydropyrimidinase related
XX protein-2, DRP-2) amplifying PCR primer used in the exemplification
XX of the invention.
XX
XX Sequence 21 BP; 6 A; 6 C; 5 G; 4 T; 0 other;
XX
Query Match 1.3%; Score 21; DB 24; Length 21;
Best Local Similarity 100.0%; Pred. No. 3.6e+04;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 505 AGATCGCTTCGACGCTAACGGA 525
DB 1 AGATCGCTTCGACGCTAACGGA 21
RESULT 13
AAT42432
ID AAT42432 standard; DNA; 45 BP.
XX
XX AAT42432;
AC
XX
XX 29-JUL-1997 (first entry)
DT
XX
XX GD domain region for Bax encoding DNA, amino acid residues 59-73.
DE
XX Apoptosis; follicular lymphoma; tumour; p53; antibody; ss.
KW
XX Synthetic.
OS
XX W09635951-A1.
XX
XX 14-NOV-1996.
XX
XX 06-MAY-1996; 96WO-US06122.
XX
XX 12-MAY-1995; 95US-0440391.
XX
XX (IMMU-) IMMUNOGEN INC.
XX
XX Chittenden TD, Lutz RJ;
PI

DR WPI; 1996-518805/51.
 DR P-PSDB; AAW08296.
 XX
 PT Peptide(s) comprising GD domains - have similar activities to wild
 PT type Bak, and cause cellular apoptosis for treatment of viral
 PT infection
 XX
 PS Claim 6; Page 47; 69pp; English.
 XX
 CC The term GD domain refers to a protein domain first identified in
 CC Bak and shown to be essential for the interaction of Bak with Bcl-x(L)
 CC and for Bak's cell killing function; and to peptides and/or molecules
 CC capable of mimicking its structure and/or function. The present sequence
 CC encodes a GD domain corresponding to amino acid residues 59-73 of Bak.
 CC An antibody raised against a GD domain may be used to screen a cDNA
 CC expression library for clones comprising cDNA inserts encoding
 CC immunoreactive proteins. Truncated GD domain peptides have been
 CC shown to maintain the protein binding and cell killing function
 CC exhibited by wild type Bak. These molecules may induce apoptosis in
 CC tumour cell. These peptides act independently of p53 status. Bak or
 CC GD domain mimetics that inhibit Bcl-2 may be selectively toxic to
 CC certain tumours, e.g. follicular lymphoma, which depend on high levels
 CC of Bcl-2 for their continued growth and survival. GD domain mimetics
 CC may also be used for combatting viral infections by causing apoptosis
 CC of infected cells.
 XX
 SQ Sequence 45 BP; 12 A; 11 C; 15 G; 7 T; 0 other;
 Query Match 1.3%; Score 21; DB 17; Length 45;
 Best Local Similarity 73.0%; Pred. No. 5.2e+04;
 Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
 QY 414 TCAGCGAGTGGCATAAGGCGCATCCAGGAGGAGATGGA 450
 DB 2 TGAGCGAGTGTCTCAAGCGCATCCGGGAGCGAAGCTGGA 38
 RESULT 14
 ABK11181
 ID ABK11181 standard; DNA; 45 BP.
 AC ABK11181;
 XX
 DT 05-JUN-2002 (first entry)
 DE DNA encoding Bax GD domain region #1 for modulating apoptosis.
 XX
 KW GD domain; apoptosis; interaction with Bcl-XL; cell killing function;
 KW bak; cell death regulatory molecule; autoimmune disease; cancer;
 KW bax; ds.
 XX
 OS Unidentified.
 XX
 FH Key Location/Qualifiers
 FT CDS 1..45
 FT /tag= a
 FT /partial
 FT /product= "Bax GD domain region #1"
 FT /note= "This sequence lacks both start and stop codons"
 XX
 FN US6221615-B1.
 XX
 PD 24-APR-2001.
 XX
 PF 25-JAN-1999; 99US-0236385.
 XX
 PR 12-MAY-1995; 95US-0440391.
 PR 08-AUG-1997; 97US-0908597.
 XX
 PA (APO-) APOPTOSIS TECHNOLOGY INC.
 XX
 PI Chittenden TD, Lutz RJ.
 XX

DR WPI; 2002-234950/29.
 DR P-PSDB; AAU77879.
 XX
 PT Identifying agents (e.g. modulators of apoptosis) capable of modulating
 PT GD domain mediated heterodimerisation or homodimerisation comprises
 PT carrying out a heterodimerisation or homodimerisation assay -
 XX
 PS Disclosure; Fig 8B; 37pp; English.
 XX
 CC The present invention relates to novel peptides, designated GD domains,
 CC which are capable of modulating apoptosis. The GD domains are essential
 CC for Bak's interaction with Bcl-XL, and to Bak's cell killing function.
 CC The GD domains mediate key protein/protein interactions with multiple
 CC cell death regulatory molecules. Also described are methods of
 CC identifying agonists or antagonists of GD domains. The methods are
 CC useful for identifying agents capable of modulating GD domain mediated
 CC heterodimerisation or homodimerisation. The methods are particularly
 CC useful in drug screening and design, e.g. for identifying agents for
 CC treating autoimmune disease or cancer, or for identifying modulators
 CC of apoptosis. The present DNA sequence encodes a GD domain region.
 XX
 SQ Sequence 45 BP; 12 A; 11 C; 15 G; 7 T; 0 other;
 Query Match 1.3%; Score 21; DB 24; Length 45;
 Best Local Similarity 73.0%; Pred. No. 5.2e+04;
 Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
 QY 414 TCAGCGAGTGGCATAAGGCGCATCCAGGAGGAGATGGA 450
 DB 2 TGAGCGAGTGTCTCAAGCGCATCCGGGAGCGAAGCTGGA 38
 RESULT 15
 AAZ66703/C
 ID AAZ66703 standard; DNA; 47 BP.
 XX
 AC AAZ66703;
 XX
 DT 10-SEP-2001 (first entry)
 DE Human map-related biallelic marker SEQ ID NO:1050.
 XX
 KW Human genome; biallelic marker; high density disequilibrium map;
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
 KW haplotyping; hybridisation; identification; characterisation;
 KW diagnosis; single nucleotide polymorphism; SNP; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT variation replace(24,T)
 FT /tag= a
 FT /standard_name= "single nucleotide polymorphism"
 XX
 FN WO9954500-A2.
 XX
 PD 28-OCT-1999.
 XX
 PF 21-APR-1999; 99WO-IB00822.
 XX
 PR 21-APR-1998; 98US-0082614.
 PR 23-NOV-1998; 98US-0109732.
 XX
 PA (GEST) GENSET.
 XX
 PI Cohen D, Blumenfeld M, Chumakov I;
 XX WPI; 2000-013267/01.
 XX
 PT Novel biallelic markers used to construct a high density disequilibrium
 PT map of the human genome -
 XX
 PS Claim 1; Page 454; 2745pp; English.

XX AAZ65654 to AAZ69578 represent human biallelic markers from the present
CC invention, which contain a polymorphic base at position 24 of their
CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
CC primers for the biallelic markers. The biallelic markers of the
CC invention have a variety of uses: they can be used for high density
CC mapping of the human genome, and in complex association studies and
CC haplotyping studies which are useful in determining the genetic basis
CC for disease states. Compositions and methods of the invention can also
CC be useful for the identification of the targets for the development of
CC pharmaceutical agents and diagnostic methods, as well as the
CC characterisation of the differential efficacious responses to and side
CC effects from pharmaceutical agents acting on a disease as well as other
CC treatment.

CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297
CC and 3367, are not actually given a sequence in the Sequence Listing
CC from the present invention.

XX SQ Sequence 47 BP; 15 A; 11 C; 11 G; 10 T; 0 other;

Query Match 1.3%; Score 21; DB 21; Length 47;
Best Local Similarity 66.7%; Pred. No. 5.4e+04;
Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 477 ATTCTTCTCTCGTGTACATGGCTTTCAAGATCGCTTCCAGCTAA 521
Db 46 AATGCTTCTCTTGTACATGGCTTTCTGGACTACAAGCAGGTCA 2

Search completed: December 10, 2003, 19:47:32
Job time : 483 secs